INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2004/013995

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01Q1/32 H01Q7/08

H01Q1/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

	ENTS CONSIDERED TO BE RELEVANT	Data
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Retevant to claim No
X	US 5 396 698 A (ORTHMANN KURT ET AL') 14 March 1995 (1995-03-14)	1
Y	column 1, lines 41-68 column 2, line 55 - column 3, line 52 column 4, lines 47-65 figures 1-3,7	3,4
Υ	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 10, 31 October 1996 (1996-10-31) -& JP 08 166446 A (KUBOTA CORP), 25 June 1996 (1996-06-25) abstract; figure 1	3,4
	-/- -	
X Furth	er documents are listed in the continuation of box C. X Patent family members are	re listed in annex.
• •	egories of cited documents: "T" later document published after or priority date and not in con tidefining the general state of the art which is not cited to understand the princi	iffict with the application but

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
*Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	"T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the International search report		
19 November 2004	11/01/2005		
Name and mailing address of the ISA	Authorized officer		
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Unterberger, M		

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/013995

	WIEMATONAL SEARCH REPORT	PCT/JP2004/013995		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
ategory °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
A	WO 99/19585 A (HUF HUELSBECK & FUERST GMBH; KEMMANN HARALD (DE); LANGE STEFAN (DE);) 22 April 1999 (1999-04-22) figures 1,2 page 5, line 21 - page 6, line 19		1-4	
A	US 5 253 226 A (GANTER WOLFGANG) 12 October 1993 (1993-10-12) figure 1 column 3, lines 20-53		1-4	
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 08, 30 August 1996 (1996-08-30) -& JP 08 097616 A (TOKIN CORP), 12 April 1996 (1996-04-12) abstract; figure 1		1-4	
A	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 117107 A (TOKO INC), 6 May 1998 (1998-05-06) abstract		1-4	
	·			
			-	
	·			
	•			
			I	

Information on patent family members

Intermional Application No
PCT/JP2004/013995

Patent document cited in search report			Publication date	ion Patent family member(s)		Publication date	
US	5396698	A	14-03-1995	EP	0554486 A1	11-08-1993	
		••	• • • • • • • • • • • • • • • • • • • •	JP	6216628 A	05-08-1994	
				US	5638080 A	10-06-1997	
				· DE	69226348 D1	27-08-1998	
				DE	69226348 T2	07-01-1999	
JP	08166446	Α	25-06-1996	NONE			
WO	9919585	Α	22-04-1999	DE	19745149 A1	15-04-1999	
				BR	9813042 A	15-08-2000	
				DE	59811066 D1	29-04-2004	
				WO	9919585 A1	22-04-1999	
				EP	1023511 A1	02-08-2000	
				ES	2214737 T3	16-09-2004	
				JP	2001520337 T	30-10-2001	
				US	6768413 B1	27-07-2004	
US	5253226	Α	12-10-1993	DE	9111096 U1	07-01-1993	
				DE	59205222 D1	14-03-1996	
				EP	0531853 A2	17-03-1993	
				ES	2084897 T3	16-05-1996	
				JP	2731090 B2	25-03-1998	
				JP	6027264 A	04-02-1994	
JP	08097616	A	12-04-1996	NONE			
JP	10117107	A	06-05-1998	NONE			